

WETLAND DELINEATION REPORT

City Gate
(Iola Campus Redevelopment)

City of Rochester
Monroe County, New York

Prepared For:

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April 1, 2008

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INTRODUCTION

At the request of Bergman Associates, for A.J. Costello & Son Development, LLC, Environmental Resources, L.L.C., (ERS), undertook a study to delineate and describe the Waters of the United States that occur on a 50+/- acre parcel of land, the majority of which is developed, located southeast of the intersection of East Henrietta Road and Westfall Road, Town of Brighton, Monroe County, New York (see Appendix A—Figure 1). Waters of the United States, as defined by the United States Army Corps of Engineers (USACE), include all lakes, ponds, rivers, streams (intermittent and perennial), and non-isolated wetlands. Wetlands as referenced in this report are defined in Section 404 of the *Clean Water Act* as, “those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soil conditions”. This report describes the Waters of the United States delineated within the study area and the methodology used in making the boundary determinations. It provides the information necessary to identify all on-site Waters of the United States and can be used to support any subsequent permit applications that may be submitted to the USACE (Buffalo District) and New York State Department of Environmental Conservation (NYSDEC) (Region 8).

SITE DESCRIPTION

The majority of the project site consists of developments associated with the former Monroe County Iola Campus. The focus of this investigation is the largely undeveloped eastern third of the property known as City Gate, which consists of approximately 15 acres. The study area is bounded by the existing Iola Campus to the west, an office campus and undeveloped lands to the east, Westfall Road to the north, and the Erie Canal and Interstate 590 to the south.

The undeveloped portion of the project site appears to have been utilized as a storage area for maintenance equipment and construction materials. Although no buildings are currently present, evidence of past disturbance includes extensive fills resulting from parking areas, driveways, and disposal, construction and demolition of buildings, and storage of construction materials. As such, the vegetation communities currently characterizing this area are consistent with successional old-field and forest “pioneer” communities typical of disturbed sites. In addition, poor grading during these disturbance activities have altered hydrology and resulted in several pockets of standing water, which now exhibit wetland character.

RESOURCE INFORMATION

To determine the possibility of wetlands occurring within the study area, the following background information was collected and reviewed.

United States Geologic Survey (USGS 7.5 Minute) Topographic Map

The project site is located within the Pittsford, New York Quadrangle Map (Figure 1). This map shows approximately 35+/- feet of relief across the entire site, with an overall southeast aspect. With the exception of the Erie Canal along the south side of the site, no additional watercourses are mapped.

United States Fish and Wildlife Service National Wetlands Inventory (NWI) Map

The NWI map does not indicate there to be any suspected wetlands within the study area. (Figure 2).

NYS Freshwater Wetland Map

As shown in Figure 3, no NYSDEC wetlands are suspected to be present on or adjacent to the site.

Monroe County Soil Survey

A review of the Monroe County Soil Survey (USDA, March 1973) indicates an intermittent drainage way across the south end of the site. Mapped soil types are described below and shown in Figure 4.

- ApA--Appleton loam, 0 to 3 percent slopes--this is a deep, medium-texture soil formed in calcareous glacial till. This somewhat poorly drained soil is in nearly level areas where runoff is slow or in slight depressions that receive runoff. The water table is at a depth of 6 to 12 inches if the area is undrained. In dry periods, it drops below 20 inches. The substratum is slowly permeable. This soil series is mapped in the northeast corner of the site.
- HIB--Hilton loam, 3 to 8 percent slopes, deep, moderately well drained medium and moderately coarse textured soils formed in calcareous glacial till. This soil occupies foot slopes on drumlins and side slopes of low ridges on till plains. These soils are mapped to dominate the north and central portions of the site.
- Ng - Niagara silt loam, 0 to 2 percent slopes, deep, somewhat poorly drained soils having a medium-textured surface layer and a medium to moderately fine textured subsoil. This soil series occupies intermediate landscape positions between high knobs and low depressions in old glacial lakebeds. The Niagara series is mapped in the central and south end of the study area.
- SeB - Schoharie silt loam, 2 to 6 percent slopes, deep, moderately well drained to well drained soils having a medium textured or moderately fine textured surface layer, and a fine to moderately fine textured subsoil. SeB soils occur on the sides of higher knolls in old glacial lakebeds. This soil series is mapped in the central portion of the study area.

The USDA Natural Resource Conservation Service (USDA SCS, 1989) has determined the Appleton and Niagara series to have the potential for hydric inclusions, and the Hilton and Schoharie series to be non-hydric.

WETLAND DELINEATION METHODOLOGY

A wetland delineation including detailed data collection and boundary identification was performed on January 7, 2008 (in the absence of snow cover), by wetlands ecologist Gene Pellett and wildlife biologist John Hauber. During the field investigation, the boundaries of all wetlands within the study area were flagged using surveyor's ribbon or specifically noted on appropriate mapping. Data was collected from a thorough assessment of the property; particular attention was given to suspected hydric and potentially hydric soils.

Wetlands on site were delineated according to the methodology described in the *1987 Corps of Engineers Wetland Delineation Manual* (hereafter referred to as the *1987 Manual*) (Environmental Laboratory, 1987). Observations of vegetation, soils and hydrologic conditions were used to determine the boundaries of federally and state regulated wetlands. Data sheets were completed for the sample plots, including verifying upland points, and are presented in Appendix B. Representative photographs were taken of the wetland, as well as adjacent uplands, and are presented in Appendix C (the locations of the photographs are indicated in Appendix A, Figure 5).

Vegetation data collection focused on dominant plant species in four categories: trees (>3" DBH), sapling/shrubs (<3.2' tall), woody vines, and herbs (<3.2' tall). Dominance was measured by visually estimating those species having the largest relative basal area (trees), greatest density (saplings/shrubs), greatest number of stems (woody vines), and greatest percentage of aerial coverage (herbs) by species. The species were rank-ordered for each category by decreasing value of percent cover. The dominant species for each category are defined as those plants with the highest ranking which, when cumulatively totaled, exceed 50 percent of the total dominance measure for that category, plus any additional plant species comprising 20 percent or more of the total dominance measure for the category. The indicator status for each species was determined by reference to the *National List of Plant Species that Occur in Wetlands: Northeast (Region 1)* (Reed, 1988), or by reference to species habitat descriptions from various botanical sources for those species not on the national list. Scientific nomenclature for plant species follows that in *A Checklist of New York State Plants* (Mitchell, 1986). A sampling plot was determined to have wetland vegetation if 50 percent or more of all dominant plant species are of facultative (FAC), facultative wetland (FACW), or obligate (OBL) indicator status, as described in the *1987 Manual*.

Soils information was collected using a Dutch soil auger. Information concerning soil series, subgroup, drainage classification, texture, and matrix and mottle color was obtained at each sample location. Soil color was determined using *Munsell Soil Color Charts* (Kollmorgen Corp., 1992).

Hydrologic characteristics (inundation and soil saturation) were visually assessed to a depth of sixteen inches. The 1987 Corps Manual lists the following indicators as evidence of wetland hydrology: (1) visual observation of inundation, (2) visual observation of soil saturation, (3) watermarks, (4) drift lines, (5) sediment deposits, (6) absence of leaf litter, (7) encrusted detritus, and (8) drainage patterns. Based on professional judgment, the following additional indicators were also used as evidence of wetland hydrology: (1) water-stained leaves, and (2) oxidized rhizospheres.

INSTRUMENT SURVEY

An instrument survey of the delineated wetland boundaries was completed by Bergman Associates on January 25, 2008, and is shown in Figure 5.

RESULTS AND DISCUSSION

Four small areas exhibiting wetland criteria as described in the *1987 Manual* occur on the project site and total $0.30\pm$ acres. (Appendix A, Figure 5). A discussion of these wetlands, site uplands, and their characteristics follows.

Wetland A

Wetland A is a channelized intermittent stream corridor occurring in the southeast corner of the study area. (Photo 1). This 0.12 acre ($495\pm$ linear feet) channel occurs in mapped Niagara soils, collecting surface water runoff from surrounding uplands and conveying them easterly into a broad off-site cattail (*Typha angustifolia*-OBL) marsh (Photo 2). The streambed is approximately 24-inches wide and occurs 8'-10' below the surrounding landscape of apparent fill. There is no vegetation within the streambed.

Wetland B

The majority of this wetland is found off-site beyond the study area's east property line. (Photo 3). On-site straddling the east property line, Wetland B is a 0.07-acre emergent marsh that occurs at the base of obvious on-site fill. Resulting from apparent excavation, Wetland B is dominated by cattail and common reed (*Phragmites australis*-FACW). Underlying soils have a matrix color of 10YR4/2 (dark grayish brown) with common high chroma mottles to a depth of 12-inches.

Indicators of wetland hydrology include surface inundation, saturated soils, watermarks, and water-stained leaves.

Adjacent Uplands

Adjacent uplands south of Wetland A are characterized as a successional "pioneer" community, established on past fills, consisting of mounded unconsolidated soils, asphalt, concrete, and rubble. Dominant vegetation includes eastern cottonwood (*Populus deltoids*-FAC) and box elder trees, honeysuckle (*Lonicera tatarica*-FACU) shrubs, summer grape (*Vitis aestivalis*-FACU) vines, and white avens (*Geum canadense*-FACU) on the ground plain. (Photo 4).

Adjacent uplands north of Wetland A and west of Wetland B consist of gravel parking lot (abandoned) fills with sporadic areas of opportunistic common reed and mugwort (*Altissima vulgaris-UPL*), typical of such disturbed sites. (Photo 5). These upland areas have no soil profile and lack indicators of wetland hydrology.

Wetland C

Wetland C is a 0.09-acre surface water depressional wetland that occurs in a hedgerow along the west boundary line of the project site. (Photo 6). It appears to have been created in a low area between developments to the west (Iola Campus) and the terminus of extensive fill on this study area, and exhibits no outflow. Hydrologic input is primarily piped stormwater, directed from those developments to the west, evidenced by surface inundation (20+ inches), saturated soils, watermarks, and water-stained leaves. Dominant vegetation is monotypic, common reed. Underlying hydric soils have a matrix color of 10YR4/2, with high chroma mottles to a depth of 8-inches.

Wetland D

Wetland D is a small (0.05-acre) isolated, surface water depressional wetland that has developed at the base of elevated fill as a result of poor grading during past earth moving activities. (Photo 7). Underlying soils consist of exposed subsoils having a matrix color of 10YR4/2 with high chroma mottles to a depth of 6-inches, beyond which is solid fill. Dominant vegetation is consistent with moist disturbed areas and is entirely common reed. This isolated wetland receives surface water runoff from surrounding elevated uplands and exhibits no evidence of outflow. Indicators of wetland hydrology include surface inundation (8-inches) and saturated soils.

Adjacent Uplands

Site uplands adjacent to Wetland C consist of 12'-18' of fill material, whose boundary to the wetland is abrupt. (Photo 8). Dominant vegetation consists entirely of upland grasses and forbs including garlic mustard (*Alliaria petiolata-FACU*), mugwort, Queen Ann's lace (*Daucus carota-FACU*), teasel (*Dipsicus sylvestris-FACU*), and others.

The above-described uplands are also characteristic of those adjacent to Wetland D, although the depth of fill is not as great.

Other Site Uplands

Pockets of common reed are widespread across the study area, as this opportunistic species is taking full advantage of the disturbed nature of the project site and is not un-common to be found in upland areas. (Photo 9). Where found, the soil substrate is non-hydric and typically consists of three or four inches of topsoil or exposed cinder fills. Although substrate moisture is apparent, these areas do not exhibit indicators of wetland hydrology.

The site's final distinct upland community is a successional forest area at the north end, consisting box elder trees, honeysuckle shrubs, and white avens on the ground plain. (Photo 10). This community appears to have become established on historic fills, and exhibits no evidence of wetland hydrology.

WETLAND FUNCTIONS AND BENEFITS

Activities affecting wetlands have been regulated because these areas can provide various functions and benefits, including 1) natural products for human use, 2) habitat for fish and wildlife, 3) habitat for rare plant and animal species, 4) opportunities for recreation, education, and aesthetic appreciation, 5) flood protection, 6) water quality improvement, 7) shoreline erosion control, and 8) groundwater recharge and discharge. The functions and benefits provided by this property's wetlands are limited based on their isolated landscape position and colonization by low value vegetation (common reed). Benefits may include stormwater collection and wildlife habitat, primarily for breeding amphibians that may occupy the site. No threatened or endangered species (flora or fauna) were observed.

CONCLUSIONS

Based on our review of existing data and field conditions, it was determined that four wetland areas totaling 0.30+/- acres occur on the project site. These wetlands have developed in small pockets on a disturbed landscape. Upland portions of the study area exhibit evidence of historic fill material, and are sparsely vegetated with opportunistic species typical of disturbed sites.

It is our professional opinion that Wetlands A and B are interstate waterways regulated by Section 404 of the *Clean Water Act*. Further, Wetlands C and D exhibit no evidence of outflow or ecological continuum to navigable waters and are not so regulated. However, the USACE makes the final jurisdictional determination based on their site visit and review of historical maps and aerial photographs.

REGULATORY GUIDANCE

The discharge of fill material into jurisdictional wetland areas, as determined by USACE, resulting in the loss of <0.10 acres will likely qualify for Nationwide Permit 18 (NWP 18) requiring pre-construction notification to USACE, with no compensatory mitigation requirement. Wetland fills between 0.10 and 0.50 acres should qualify for NWP 39, requiring pre-construction notification to USACE, including plans for compensatory wetland mitigation.

LITERATURE CITED

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Peterson, R.T. and M. McKenny. 1968. *A Field Guide to Wildflowers of Northeastern and North Central North America*. Houghton Mifflin Co., Boston, MA.

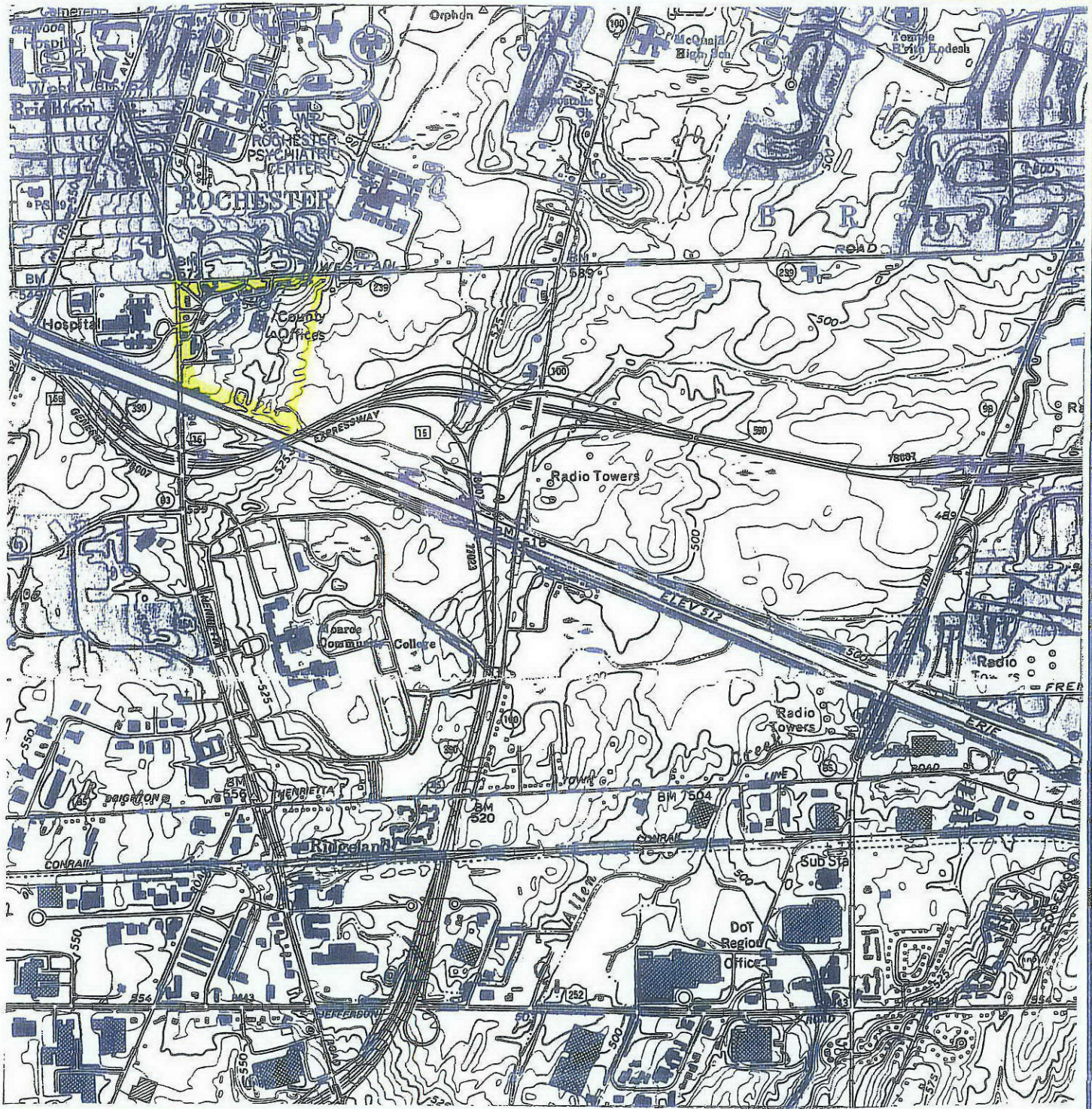
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USDA SCS. 1989. *Hydric Soils of the State of New York*. USDA Soil Conservation Service in Cooperation with National Technical Committee for Hydric Soils, Washington, DC.

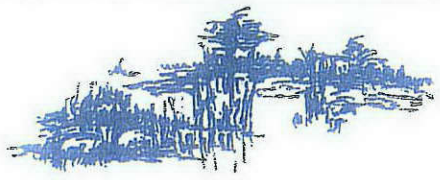
APPENDIX A
Figures

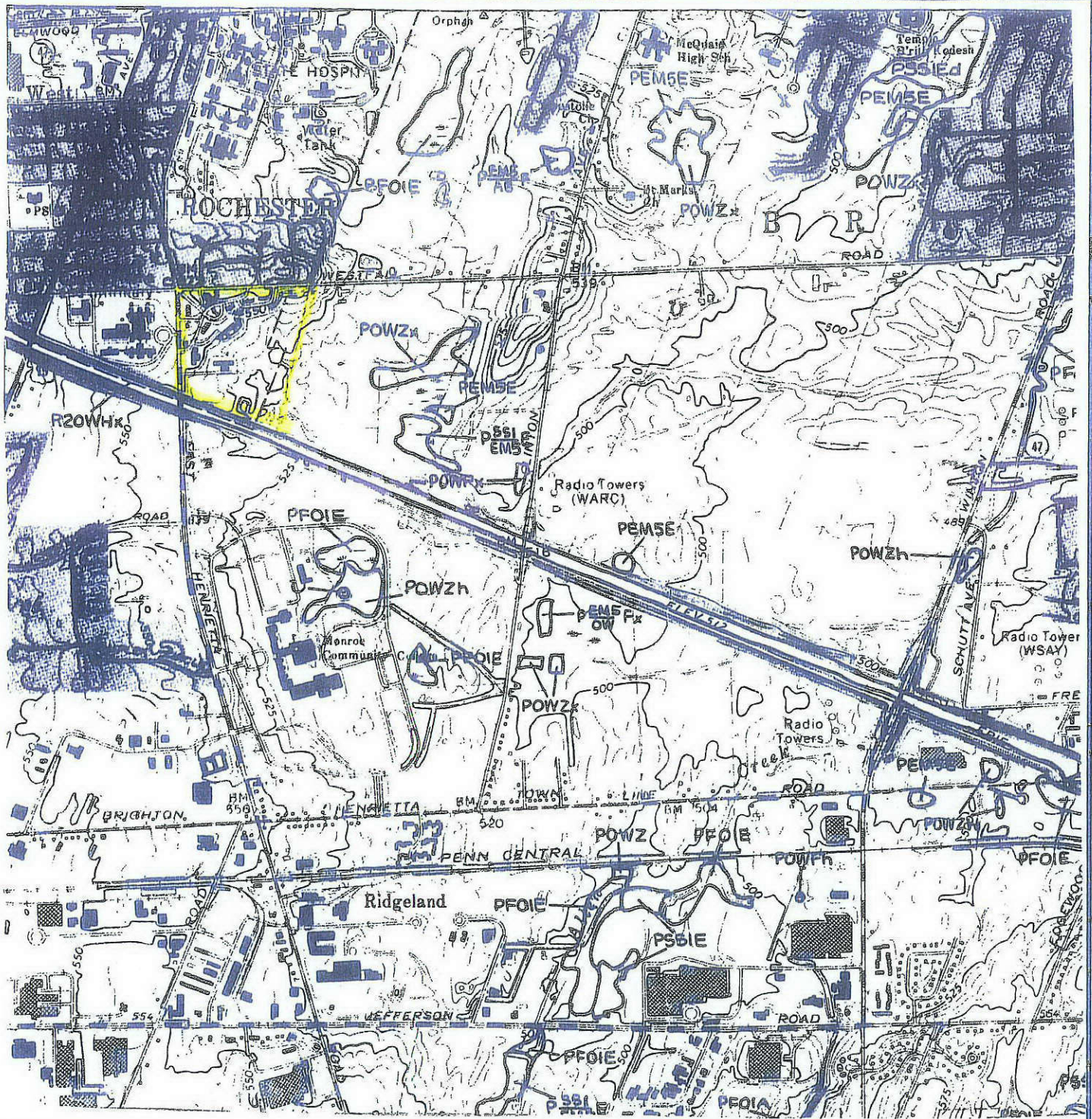


Legend: Site Boundary
 Base Map: USGS 7.5 Minute Topographic Map - Pittsford, NY (1978)

Prepared By: *Environmental Resources, LLC*

FIGURE 1. SITE LOCATION



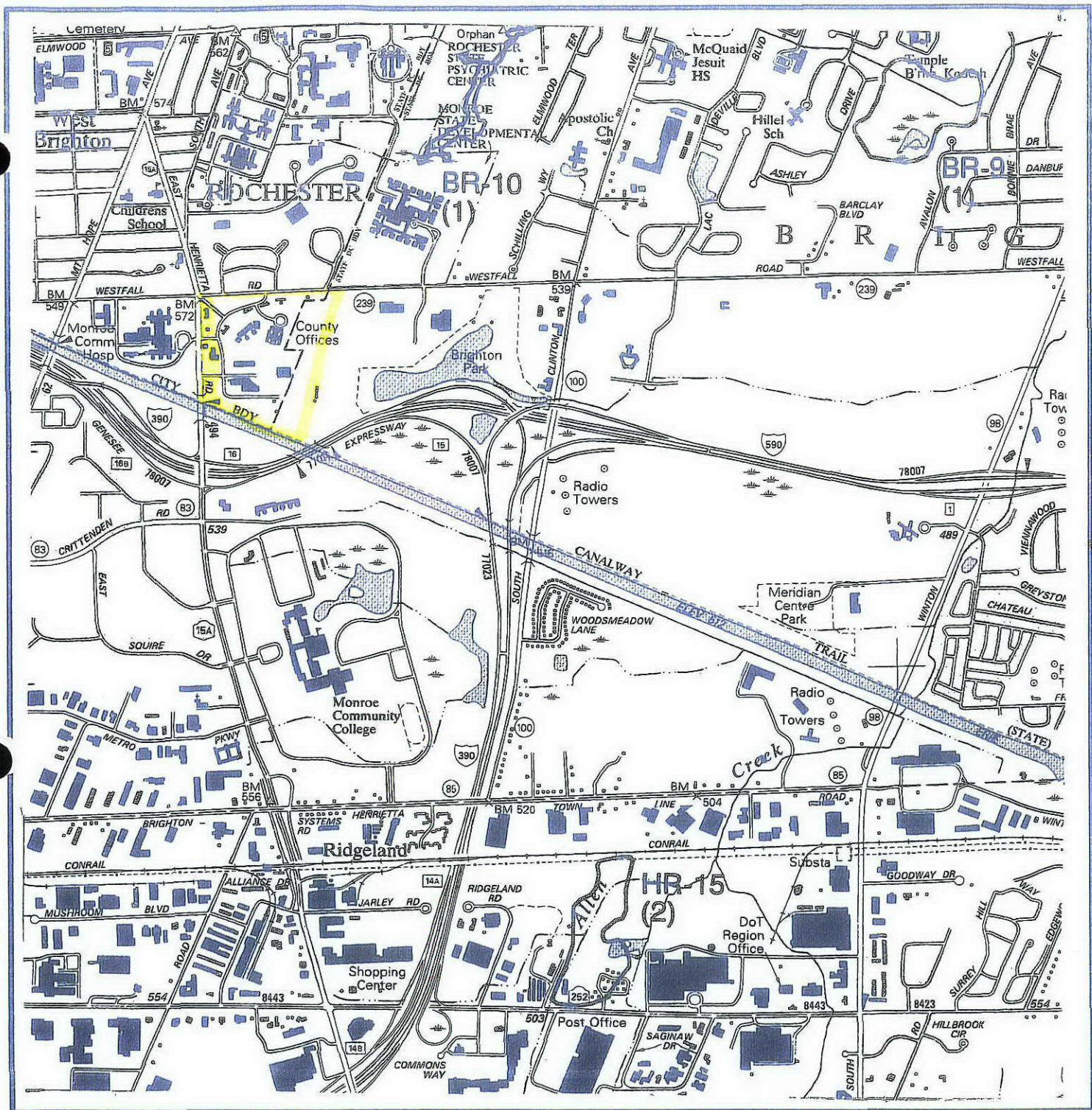


Legend: Site Boundary
 Base Map: National Wetlands Inventory Map - Pittsford, NY

Prepared By: *Environmental Resources, LLC*

FIGURE 2. FEDERAL WETLANDS

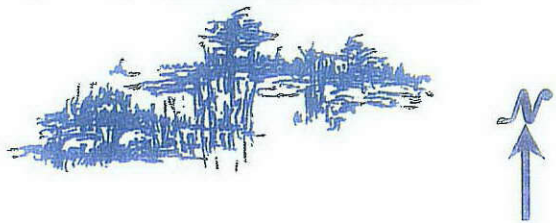




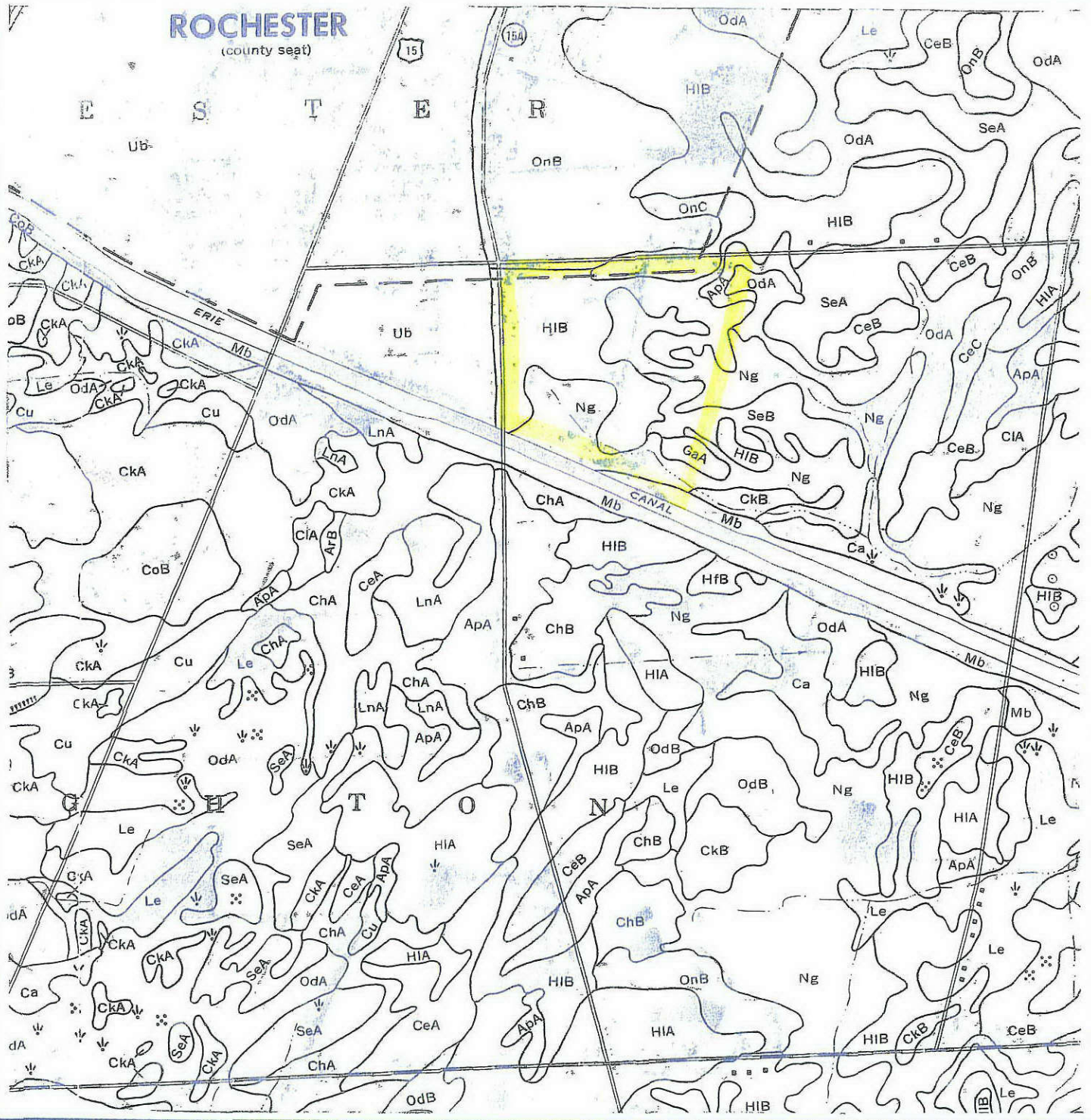
Legend: Site Boundary
 Base Map: NYS Freshwater Wetlands Map - Pittsford, NY

FIGURE 3. STATE WETLANDS

Prepared By: *Environmental Resources, LLC*



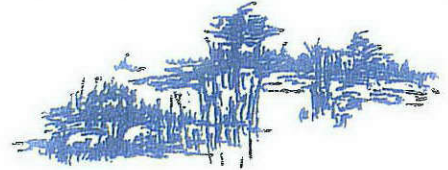
ROCHESTER
(county seat)

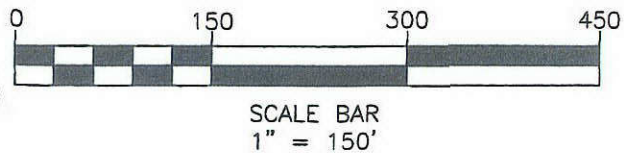


Legend: Site Boundary
 Base Map: Monroe County Soil Survey (USDA, 1973)

Prepared By: *Environmental Resources, LLC*

FIGURE 4. SOILS



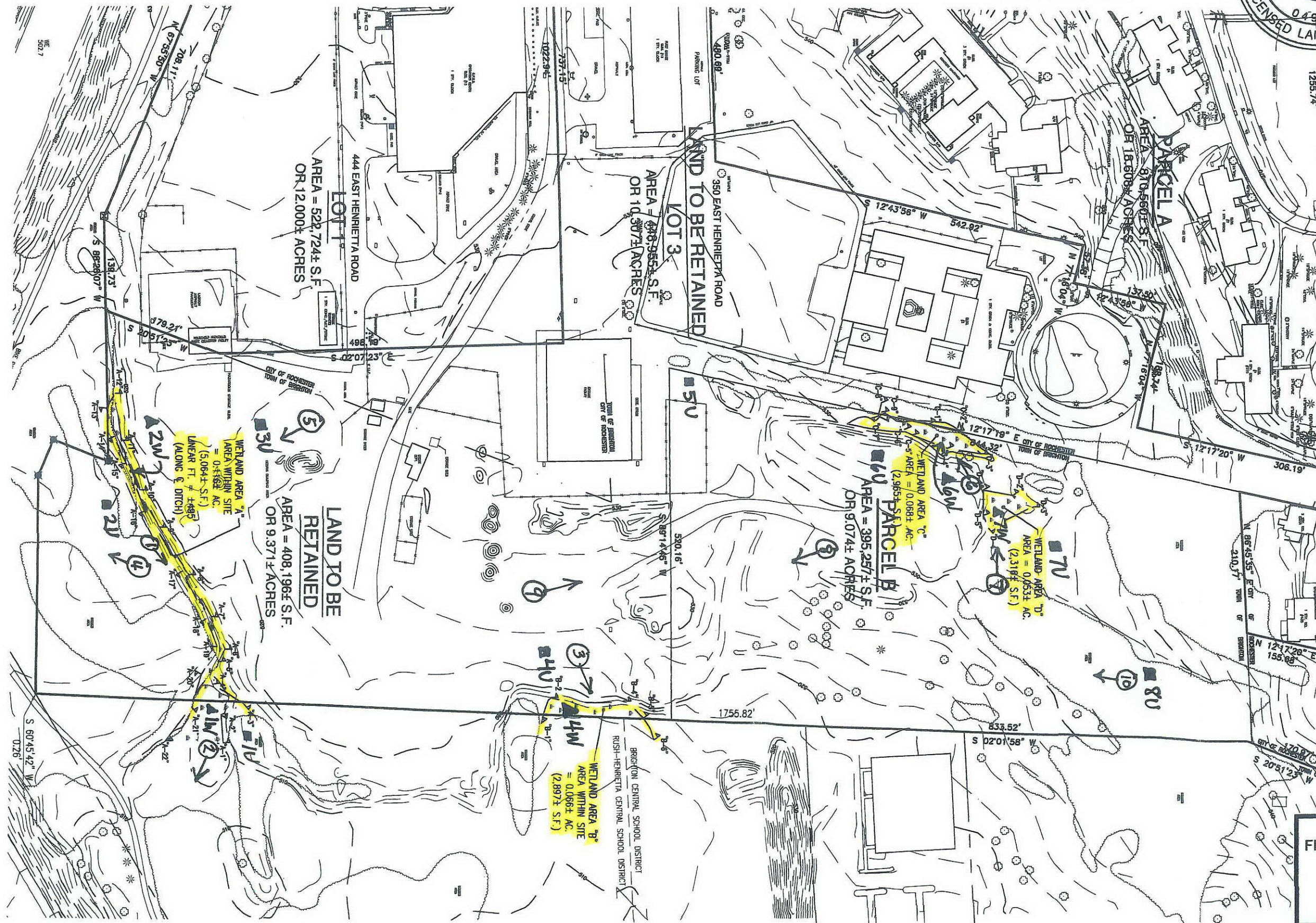
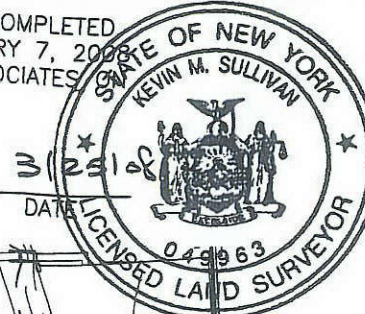


LEGEND:
 A-#-A = WETLAND FLAG/DESIGNATION
 [Symbol] = DELINEATED WETLAND AREA



WETLAND DELINEATIONS SHOWN HEREON WERE COMPLETED BY ENVIRONMENTAL REOURCES, LLC ON JANUARY 7, 2008 AND LOCATED IN THE FIELD BY BERGMANN ASSOCIATES JANUARY, 25, 2008.

Kevin M. Sullivan
 KEVIN M. SULLIVAN L.S. No. 049963



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 Development, Spencer, LLC
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 WESTFALL ROAD
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 COUNTY OF MONROE
 STATE OF NEW YORK

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Engineers / Architects / Planners / Surveyors

DRAWING TITLE:
**WETLAND
 DELINEATION
 MAP**

BY: **P. MCKEOWN**

CHK'D BY: **K. SULLIVAN**

DATE: **1/29/2008**

JOB #: **7594.00**

SHEET #: **1 OF 1**

FIGURE 5. SURVEYED WETLANDS BOUNDARIES
LEGEND
 ▲ 1W - Wetland Data Point Location
 ■ 2U - Upland Data Point Location
 ⊙ 1 - Photograph Location

APPENDIX B
Data Sheets

Environmental Resources, LLC
 33 Kress Hill Drive
 Spencerport, NY 14559
 (585) 594-4450

DATA FORM
ROUTINE WETLAND DETERMINATION

1987 USACE Wetlands Delineation Manual

Date: 7-Jan-08
 Town: Brighton/City Rochester
 County: Monroe
 State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello
 Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No
 Is the site significantly disturbed? Yes No
 Is the area a potential Problem Area? Yes No

Community: Emergent Wetland
 Transect/Flag ID: @A2
 Plot ID: IW

SOILS

Series and Phase: Excavated through mapped Niagara soils Drainage Class: WD MWD SPD PD VPD
 Subgroup: _____ Confirmed Mapped Type: Yes No

Depth	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Features/Abundance/Contrast (Munsell Moist)	Texture, Structure, Other
*				

Hydric Soil Indicators:

Histisols Concretions Listed on Local Hydric Soils List
 Histic Epipedon High Org. Content in Surface Layer Listed as Potential for Hydric Inclusions Only
 Sulfidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks)
 Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime
 Landscape Position: Concave _____ Convex _____ Sloping _____ Approximate Slope: _____
 Flat _____ Undulating _____

Remarks: * OBL dominant veg precludes soils data requirement.

HYDROLOGY

Recorded Data (Describe in Remarks)
 Local Soil Survey
 NWI Map
 NYS FWW Map
 Stream, Lake or Tide Gauge
 No Recorded Data Available

Field Observations

Ground Surface Inundated 2 ^{pockets} inches
 Soil Saturated - Depth to Saturated Soils 0 inches
 Depth to Free Water 0 inches

Wetland Hydrology Indicators

Primary Indicators

Inundated
 Saturated in upper 12 inches
 Water Marks
 Drift Lines
 Sediment Deposits
 Drainage Patterns in Wetland

Secondary Indicators (2 or more required)

Oxidized Root Channels in upper 12 inches
 Water - Stained leaves
 Local Soil Survey
 FAC - Neutral Test
 Other (Explain in Remarks)

Remarks: Trib. to Allen Creek

VEGETATION

	Dominant Plant Species:	Stratum:	Indicator:
1	<u>Typha angustifolia</u>	<u>H</u> S/S T V	<u>OBL</u>
2		H S/S T V	
3		H S/S T V	
4		H S/S T V	
5		H S/S T V	
6		H S/S T V	
7		H S/S T V	
8		H S/S T V	
9		H S/S T V	
10		H S/S T V	
11		H S/S T V	
12		H S/S T V	

50/20 Rule Applied: Yes No Percent of Dominant Species
 OBL, FACW, FAC _____
 OBL, FACW 100

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes or No
 Wetland Hydrology Present? Yes or No
 Hydric Soils Present: Yes or No Assumed
 Is this Sampling Point Within a Wetland? Yes or No

Remarks: Broad terminus of ditched intermittent stream channel

DATA FORM

ROUTINE WETLAND DETERMINATION

1987 USACE Wetlands Delineation Manual

Date: 7-Jan-08

Town: Brighton/City Rochester

County: Monroe

State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello

Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No
Is the site significantly disturbed? Yes No
Is the area a potential Problem Area? Yes No

Community: Successional Pioneer Community on
Transect/Flag ID: PAZ
Plot ID: 11

SOILS

Series and Phase:
Subgroup:

Drainage Class: WD MWD SPD PD VPD
Confirmed Mapped Type: Yes No

Table with 4 columns: Depth, Horizon, Matrix Color (Munsell Moist), Redoximorphic Features/Abundance/Contrast (Munsell Moist), Texture, Structure, Other. Includes handwritten asterisk in Matrix Color column.

Hydric Soil Indicators:

- List of soil indicators including Histisols, Histic Epipedon, Sulfidic Odor, Reducing Conditions, Concretions, High Org. Content in Surface Layer, Organic Streaking in Sandy Soils, Gleyed or Low Chroma color, Sloping, and Approximate Slope.

Remarks: FILL mounded.

HYDROLOGY

- Recorded Data (Describe in Remarks): Local Soil Survey, NWI Map, NYS FWW Map, Stream, Lake or Tide Gauge, No Recorded Data Available.

Field Observations

Ground Surface Inundated inches
Soil Saturated - Depth to Saturated Soils inches
Depth to Free Water inches

Wetland Hydrology Indicators

Primary Indicators

- Inundated, Saturated in upper 12 inches, Water Marks, Drift Lines, Sediment Deposits, Drainage Patterns in Wetland.

Secondary Indicators (2 or more required)

- Oxidized Root Channels in upper 12 inches, Water - Stained leaves, Local Soil Survey, FAC - Neutral Test, Other (Explain in Remarks).

Remarks:

VEGETATION

Table with 3 columns: Dominant Plant Species, Stratum, Indicator. Lists species like Acer negundo, Malus spp, Galia mustarda, and Lonicera tatarica.

50/20 Rule Applied: Yes No
Percent of Dominant Species: OBL, FACW, FAC, OBL, FACW

Remarks:

WETLAND DETERMINATION

- Hydrophytic Vegetation Present? Yes or No
Wetland Hydrology Present? Yes or No
Hydric Soils Present: Yes or No
Is this Sampling Point Within a Wetland? Yes or No

Remarks: 8'-15' Fill piles. Upland.

DATA FORM

ROUTINE WETLAND DETERMINATION

1987 USACE Wetlands Delineation Manual

Date: 7-Jan-08

Town: Brighton/City Rochester

County: Monroe

State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello

Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes (No)
Is the site significantly disturbed? Yes (No)
Is the area a potential Problem Area? Yes (No)

Community: Channelized Intermittent Ditch
Transect/Flag ID: EA15
Plot ID: ZW

SOILS

Series and Phase: Cut through Niagara (mapped as)
Subgroup: Aeric Ochraqualf

Drainage Class: WD MWD SPD PD VPD

Confirmed Mapped Type: Yes No exposed Sub

Table with 4 columns: Depth, Horizon, Matrix Color (Munsell Moist), Redoximorphic Features/Abundance/Contrast (Munsell Moist), Texture, Structure, Other

Hydric Soil Indicators:

- Histic Epipedon, Sulfidic Odor, Reducing Conditions, Concretions, High Org. Content in Surface Layer, Organic Streaking in Sandy Soils, Gleyed or Low Chroma color, Listed on Local Hydric Soils List, Listed as Potential for Hydric Inclusions Only, Other (Explain in Remarks), Aquic Moisture Regime, Sloping, Approximate Slope

Remarks: Ditched swale between fill mounds ~ 10' above channel. channel ~ 24" wide on average. Abrupt side slopes zone 1.

HYDROLOGY

VEGETATION

- Recorded Data (Describe in Remarks): Local Soil Survey, NWI Map, NYS FWW Map, Stream, Lake or Tide Gauge, No Recorded Data Available

Field Observations

Ground Surface Inundated 2" inches
Soil Saturated - Depth to Saturated Soils 0 inches
Depth to Free Water 0 inches

Wetland Hydrology Indicators

Primary Indicators

- Inundated, Saturated in upper 12 inches, Water Marks, Drift Lines, Sediment Deposits, Drainage Patterns in Wetland

Secondary Indicators (2 or more required)

- Oxidized Root Channels in upper 12 inches, Water - Stained leaves, Local Soil Survey, FAC - Neutral Test, Other (Explain in Remarks)

Dominant Plant Species:

Stratum:

Indicator:

Table with 3 columns: Dominant Plant Species, Stratum, Indicator. Rows 1-12.

50/20 Rule Applied: Yes No

Percent of Dominant Species

OBL, FACW, FAC

OBL, FACW

Remarks:

Little to no veg in channel bed. Abrupt sloping uplands (zone 1).

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes or No in pockets

Wetland Hydrology Present? Yes or No

Hydric Soils Present: Yes or No NA

Is this Sampling Point Within a Wetland? Yes or No

Remarks: Mapped intermittent stream (soils map) within extensive fill material.

Pockets of Phalaris arundinacea, Phragmites spp, and Lycopodium spp.

Remarks:

DATA FORM

ROUTINE WETLAND DETERMINATION

1987 USACE Wetlands Delineation Manual

Date: 7-Jan-08

Town: Brighton/City Rochester

County: Monroe

State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello

Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No
Is the site significantly disturbed? Yes No
Is the area a potential Problem Area? Yes No

Community: Successional Pioneer Comm. over Fill
Transect/Flag ID: A15
Plot ID: ZU

SOILS

Series and Phase: FILL (mapped as Niagara)
Subgroup:

Drainage Class: WD MWD SPD PD VPD
Confirmed Mapped Type: Yes No

Table with 5 columns: Depth, Horizon, Matrix Color (Munsell Moist), Redoximorphic Features/Abundance/Contrast (Munsell Moist), Texture, Structure, Other

Hydric Soil Indicators:

Histic Epipedon, Sulfidic Odor, Reducing Conditions, Landscape Position: Concave Convex Flat Undulating, Sloping, Approximate Slope

Remarks: Un-consolidated fill. Soil, asphalt, concrete etc.

HYDROLOGY

Recorded Data (Describe in Remarks): Local Soil Survey, NWI Map, NYS FWW Map, Stream, Lake or Tide Gauge, No Recorded Data Available

Field Observations

Ground Surface Inundated inches, Soil Saturated - Depth to Saturated Soils inches, Depth to Free Water inches

Wetland Hydrology Indicators

Primary Indicators

Inundated None, Saturated in upper 12 inches, Water Marks, Drift Lines, Sediment Deposits, Drainage Patterns in Wetland

Secondary Indicators (2 or more required)

Oxidized Root Channels in upper 12 inches, Water - Stained leaves, Local Soil Survey, FAC - Neutral Test None, Other (Explain in Remarks)

Remarks:

VEGETATION

Table with 3 columns: Dominant Plant Species, Stratum, Indicator. Includes species like Acer negundo, Vitis aestivalis, Quercus canadense, Populus deltoides, Lonicera tatarica.

50/20 Rule Applied: Yes No, Percent of Dominant Species: OBL, FACW, FAC 40, OBL, FACW 1

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes or No
Wetland Hydrology Present? Yes or No
Hydric Soils Present: Yes or No
Is this Sampling Point Within a Wetland? Yes or No

Remarks:

upland

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 33 Kress Hill Drive
 Spencerport, NY 14559
 (585) 594-4450

DATA FORM
ROUTINE WETLAND DETERMINATION

1987 USACE Wetlands Delineation Manual

Date: 7-Jan-08
 Town: Brighton/City Rochester
 County: Monroe
 State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello
 Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No
 Is the site significantly disturbed? Yes No
 Is the area a potential Problem Area? Yes No

Community: Disturbed old-field over fill
 Transect/Flag ID: Representative
 Plot ID: 3U

SOILS

Series and Phase: FILL Drainage Class: WD MWD SPD PD VPD
 Subgroup: _____ Confirmed Mapped Type: Yes No

Depth	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Features/Abundance/Contrast (Munsell Moist)	Texture, Structure, Other
0-2"		over rocky fill		

Hydric Soil Indicators:

Histisols
 Histic Epipedon
 Sulfidic Odor
 Reducing Conditions
 Concretions
 High Org. Content in Surface Layer
 Organic Streaking in Sandy Soils
 Gleyed or Low Chroma color
 Listed on Local Hydric Soils List
 Listed as Potential for Hydric Inclusions Only
 Other (Explain in Remarks)
 Aquic Moisture Regime
 Landscape Position: Concave _____ Convex _____ Sloping _____ Approximate Slope: _____
 Flat _____ Undulating _____

Remarks: Apparent old parking lot.

HYDROLOGY

Recorded Data (Describe in Remarks)
 Local Soil Survey
 NWI Map
 NYS FWW Map
 Stream, Lake or Tide Gauge
 No Recorded Data Available

Field Observations

Ground Surface Inundated _____ inches
 Soil Saturated - Depth to Saturated Soils _____ inches
 Depth to Free Water _____ inches

Wetland Hydrology Indicators

Primary Indicators

Inundated
 Saturated in upper 12 inches
 Water Marks
 Drift Lines
 Sediment Deposits
 Drainage Patterns in Wetland

Secondary Indicators (2 or more required)

Oxidized Root Channels in upper 12 inches
 Water - Stained leaves
 Local Soil Survey
 FAC - Neutral Test
 Other (Explain in Remarks)

Remarks: No long term indicators.
Incidental water on disturbed site

VEGETATION

Dominant Plant Species:	Stratum:	Indicator:
1 <u>Phragmites australis</u>	<u>H</u> S/S T V	<u>FACW</u>
2 <u>Altissima vulgaris</u>	<u>H</u> S/S T V	<u>FACU</u>
3 _____	H S/S T V	_____
4 _____	H S/S T V	_____
5 _____	H S/S T V	_____
6 _____	H S/S T V	_____
7 _____	H S/S T V	_____
8 _____	H S/S T V	_____
9 _____	H S/S T V	_____
10 _____	H S/S T V	_____
11 _____	H S/S T V	_____
12 _____	H S/S T V	_____

50/20 Rule Applied: Yes No Percent of Dominant Species
 OBL, FACW, FAC 50
 OBL, FACW 50

Remarks: Also with mullin Phragmites occurs as opportunistic pioneer species in disturbed area. Phalaris is poor indicator of wetland in this local.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes or No weak
 Wetland Hydrology Present? Yes or No
 Hydric Soils Present: Yes or No
 Is this Sampling Point Within a Wetland? Yes or No

Remarks: Insufficient as local criteria

DATA FORM

ROUTINE WETLAND DETERMINATION

1987 USACE Wetlands Delineation Manual

Date: 7-Jan-08

Town: Brighton/City Rochester

County: Monroe

State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello

Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes (No)
Is the site significantly disturbed? Yes (No)
Is the area a potential Problem Area? Yes (No)

Community: Emergent Wetland
Transect/Flag ID: @ B3
Plot ID: 4W

SOILS

Series and Phase: Niagara (Exposed)
Subgroup: Aeric Ochraqult

Drainage Class: WD MWD (SPD) PD VPD
Confirmed Mapped Type: Yes No

Table with 4 columns: Depth, Horizon, Matrix Color (Munsell Moist), Redoximorphic Features/Abundance/Contrast (Munsell Moist), Texture, Structure, Other. Row 1: 0-12, S1, 10yr 4/2, common bc distinct, s: cl. lu. ab.

Hydric Soil Indicators:

- Histic Epipedon, Sulfidic Odor, Reducing Conditions, Concretions, High Org. Content in Surface Layer, Organic Streaking in Sandy Soils, Gleyed or Low Chroma color, Listed on Local Hydric Soils List, Listed as Potential for Hydric Inclusions Only, Other (Explain in Remarks), Aquic Moisture Regime, Landscape Position: Concave, Convex, Flat (checked), Undulating, Sloping, Approximate Slope.

Remarks:

Hydric. Exposed subsoil. OBL dominant veg. precludes need for hydric soils.

HYDROLOGY

- Recorded Data (Describe in Remarks): Local Soil Survey, NWI Map, NYS FWW Map, Stream, Lake or Tide Gauge, No Recorded Data Available

Field Observations

Ground Surface Inundated inches
Soil Saturated - Depth to Saturated Soils 2 inches
Depth to Free Water 0 inches

Wetland Hydrology Indicators

- Primary Indicators: Inundated pockets, Saturated in upper 12 inches, Water Marks, Drift Lines, Sediment Deposits, Drainage Patterns in Wetland

Secondary Indicators (2 or more required)

- Oxidized Root Channels in upper 12 inches, Water - Stained leaves, Local Soil Survey, FAC - Neutral Test, Other (Explain in Remarks)

Remarks:

Excavated area adjacent to developed fill areas

VEGETATION

Table with 3 columns: Dominant Plant Species, Stratum, Indicator. Row 1: Typha angustifolia, H S/S T V, OBL. Row 2: Phragmites australis, S/S T V, FACW.

50/20 Rule Applied: Yes No

Percent of Dominant Species: OBL, FACW, FAC 100; OBL, FACW 50

Remarks:

WETLAND DETERMINATION

- Hydrophytic Vegetation Present? Yes or No
Wetland Hydrology Present? Yes or No
Hydric Soils Present: Yes or No
Is this Sampling Point Within a Wetland? Yes or No

Remarks:

All criteria met Flows E to nearby wetlands and pond Interstate

DATA FORM
ROUTINE WETLAND DETERMINATION
 1987 USACE Wetlands Delineation Manual

Date: 7-Jan-08
 Town: Brighton/City Rochester
 County: Monroe
 State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello
 Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No
 Is the site significantly disturbed? Yes No
 Is the area a potential Problem Area? Yes No

Community: Primer old field over fill
 Transect/Flag ID: @ B3
 Plot ID: 4U

SOILS

Series and Phase: FILL
 Subgroup: _____

Drainage Class: WD MWD SPD PD VPD
 Confirmed Mapped Type: Yes No

Depth	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Features/Abundance/Contrast (Munsell Moist)	Texture, Structure, Other
		*		

Hydric Soil Indicators:

Histisols
 Histic Epipedon
 Sulfidic Odor
 Reducing Conditions
 Concretions
 High Org. Content in Surface Layer
 Organic Streaking in Sandy Soils
 Gleyed or Low Chroma color
 Listed on Local Hydric Soils List
 Listed as Potential for Hydric Inclusions Only
 Other (Explain in Remarks)
 Aquic Moisture Regime
 Landscape Position: Concave _____ Convex _____
 Flat _____ Undulating _____
 Sloping _____ Approximate Slope: _____

Remarks: * No data. Stone, cinder, rocky, asphalt fill.

HYDROLOGY

Recorded Data (Describe in Remarks)
 Local Soil Survey
 NWI Map
 NYS FWW Map
 Stream, Lake or Tide Gauge
 No Recorded Data Available

Field Observations

Ground Surface Inundated _____ inches
 Soil Saturated - Depth to Saturated Soils _____ inches
 Depth to Free Water _____ inches

Wetland Hydrology Indicators

Primary Indicators

Inundated
 Saturated in upper 12 inches
 Water Marks
 Drift Lines
 Sediment Deposits None
 Drainage Patterns in Wetland

Secondary Indicators (2 or more required)

Oxidized Root Channels in upper 12 inches
 Water - Stained leaves
 Local Soil Survey None
 FAC - Neutral Test
 Other (Explain in Remarks)

Remarks: None

VEGETATION

Dominant Plant Species:	Stratum:	Indicator:
1 <u>Alfalfa vulgaris</u>	<u>H</u> S/S T V	<u>FACU</u>
2 <u>Phragmites australis</u>	<u>H</u> S/S T V	<u>FACW</u>
3 <u>Populus deltoides</u>	<u>H</u> S/S T V	<u>FAC</u>
4 <u>Few</u>	H S/S T V	
5 _____	H S/S T V	
6 _____	H S/S T V	
7 _____	H S/S T V	
8 _____	H S/S T V	
9 _____	H S/S T V	
10 _____	H S/S T V	
11 _____	H S/S T V	
12 _____	H S/S T V	

50/20 Rule Applied: Yes No
 Percent of Dominant Species
 OBL, FACW, FAC 50
 OBL, FACW 50

Remarks: Phrag. opportunistic over fill. Poor indicator of wetland conditions.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes or No
 Wetland Hydrology Present? Yes or No
 Hydric Soils Present: Yes or No
 Is this Sampling Point Within a Wetland? Yes or No

Remarks: Fill upland

DATA FORM
 ROUTINE WETLAND DETERMINATION
 1987 USACE Wetlands Delineation Manual

Date: 7-Jan-08
 Town: Brighton/City Rochester
 County: Monroe
 State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello
 Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No
 Is the site significantly disturbed? Yes No
 Is the area a potential Problem Area? Yes No

Community: Disturbed Pioneer Community
 Transect/Flag ID: Representative
 Plot ID: SU

SOILS

Series and Phase: FILL Drainage Class: WD MWD SPD PD VPD
 Subgroup: Confirmed Mapped Type: Yes No

Depth	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Features/Abundance/Contrast (Munsell Moist)	Texture, Structure, Other
0-3 only		10Y-4/2		sc (m) stony (cinders)

Hydric Soil Indicators:
 Histisols Concretions Listed on Local Hydric Soils List
 Histic Epipedon High Org. Content in Surface Layer Listed as Potential for Hydric Inclusions Only
 Sulfidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks)
 Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime
 Landscape Position: Concave Convex Sloping Approximate Slope: _____
 Flat Undulating

Remarks: Un-consolidated fill. Cinders.

HYDROLOGY

Recorded Data (Describe in Remarks)
 Local Soil Survey
 NWI Map
 NYS FWW Map
 Stream, Lake or Tide Gauge
 No Recorded Data Available

Field Observations
 Ground Surface Inundated _____ inches
 Soil Saturated - Depth to Saturated Soils _____ inches
 Depth to Free Water _____ inches

Wetland Hydrology Indicators
Primary Indicators
 Inundated
 Saturated in upper 12 inches
 Water Marks None
 Drift Lines
 Sediment Deposits
 Drainage Patterns in Wetland

Secondary Indicators (2 or more required)
 Oxidized Root Channels in upper 12 inches
 Water - Stained leaves
 Local Soil Survey None
 FAC - Neutral Test
 Other (Explain in Remarks)

Remarks:

VEGETATION

Dominant Plant Species:	Stratum:	Indicator:
1 Phragmites australis	H S/S T V	FACW
2 Salix bebbiana	H S/S T V	FACW
3 Populus deltoides	H S/S T V	FAC
4 Dioscorea silvestris	H S/S T V	FACU
5	H S/S T V	
6	H S/S T V	
7	H S/S T V	
8	H S/S T V	
9	H S/S T V	
10	H S/S T V	
11	H S/S T V	
12	H S/S T V	

50/20 Rule Applied: Yes No Percent of Dominant Species
 OBL, FACW, FAC 75
 OBL, FACU 50

Remarks: NO OBL dominant veg - Phragmites over exposed cinder fill

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes or No
 Wetland Hydrology Present? Yes or No
 Hydric Soils Present: Yes or No
 Is this Sampling Point Within a Wetland? Yes or No

Remarks: Lacks soil and hydrology wetland indicators as well as OBL dominant veg -

DATA FORM
 ROUTINE WETLAND DETERMINATION

1987 USACE Wetlands Delineation Manual

Date: 7-Jan-08
 Town: Brighton/City Rochester
 County: Monroe
 State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello
 Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No
 Is the site significantly disturbed? Yes No
 Is the area a potential Problem Area? Yes No

Community: Emergent Wetland
 Transect/Flag ID: 2C
 Plot ID: 6W

SOILS

Series and Phase: Niagara
 Subgroup: Aeric Ochraqalf
 Drainage Class: WD MWD SPD PD VPD
 Confirmed Mapped Type: Yes No

Depth	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Features/Abundance/Contrast (Munsell Moist)	Texture, Structure, Other
0-8	surface	10Yr 4/2	Common hc distinct	

Hydric Soil Indicators:

Histisols
 Histic Epipedon
 Sulfidic Odor
 Reducing Conditions
 Concretions
 High Org. Content in Surface Layer
 Organic Streaking in Sandy Soils
 Gleyed or Low Chroma color
 Listed on Local Hydric Soils List
 Listed as Potential for Hydric Inclusions Only
 Other (Explain in Remarks)
 Aquic Moisture Regime
 Landscape Position: Concave Convex
 Flat Undulating
 Sloping Approximate Slope: _____

Remarks: Excavation at base of abrupt fill. ~~SOILS~~
 weakly hydric.

HYDROLOGY

Recorded Data (Describe in Remarks)
 Local Soil Survey
 NWI Map
 NYS FWW Map
 Stream, Lake or Tide Gauge
 No Recorded Data Available

Field Observations
 Ground Surface Inundated 20+ inches
 Soil Saturated - Depth to Saturated Soils 0 inches
 Depth to Free Water 0 inches

Wetland Hydrology Indicators
Primary Indicators
 Inundated
 Saturated in upper 12 inches
 Water Marks
 Drift Lines
 Sediment Deposits
 Drainage Patterns in Wetland

Secondary Indicators (2 or more required)
 Oxidized Root Channels in upper 12 inches
 Water - Stained leaves
 Local Soil Survey
 FAC - Neutral Test
 Other (Explain in Remarks)

Remarks: depression at the base of abrupt fill pit

VEGETATION

Dominant Plant Species:	Stratum:	Indicator:
1 Phragmites australis	H S/S T V	FACW
2	H S/S T V	
3	H S/S T V	
4	H S/S T V	
5	H S/S T V	
6	H S/S T V	
7	H S/S T V	
8	H S/S T V	
9	H S/S T V	
10	H S/S T V	
11	H S/S T V	
12	H S/S T V	

50/20 Rule Applied: Yes No Percent of Dominant Species
 OBL, FACW, FAC 100
 OBL, FACW 100

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes or No
 Wetland Hydrology Present? Yes or No
 Hydric Soils Present? Yes or No
 Is this Sampling Point Within a Wetland? Yes or No

Remarks: Although weak hydric soils, hydrophytic veg an abrupt hydrology in 2 areas support wetlands as per 100% rule.

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DATA FORM
ROUTINE WETLAND DETERMINATION
 1987 USACE Wetlands Delineation Manual

Date: 7-Jan-08
 Town: Brighton/City Rochester
 County: Monroe
 State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello

Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No
 Is the site significantly disturbed? Yes No
 Is the area a potential Problem Area? Yes No

Community: Old-field over Fill
 Transect/Flag ID: EC
 Plot ID: 60

SOILS

Series and Phase: FILL
 Subgroup: _____

Drainage Class: WD MWD SPD PD VPD
 Confirmed Mapped Type: Yes No

Depth	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Features/Abundance/Contrast (Munsell Moist)	Texture, Structure, Other
0-3	surface	10yrt/2		

Hydric Soil Indicators:

Histisols
 Histic Epipedon
 Sulfidic Odor
 Reducing Conditions
 Concretions
 High Org. Content in Surface Layer
 Organic Streaking in Sandy Soils
 Gleyed or Low Chroma color
 Listed on Local Hydric Soils List
 Listed as Potential for Hydric Inclusions Only
 Other (Explain in Remarks)
 Aquic Moisture Regime
 Landscape Position: Concave Convex
 Flat Undulating
 Sloping Approximate Slope: _____

Remarks: Fill. Non-hydric

HYDROLOGY

Recorded Data (Describe in Remarks)
 Local Soil Survey
 NWI Map
 NYS FWW Map
 Stream, Lake or Tide Gauge
 No Recorded Data Available

Field Observations
 Ground Surface Inundated _____ inches
 Soil Saturated - Depth to Saturated Soils _____ inches
 Depth to Free Water _____ inches

Wetland Hydrology Indicators
Primary Indicators
 Inundated
 Saturated in upper 12 inches
 Water Marks
 Drift Lines
 Sediment Deposits
 Drainage Patterns in Wetland

Secondary Indicators (2 or more required)
 Oxidized Root Channels in upper 12 inches
 Water - Stained leaves
 Local Soil Survey
 FAC - Neutral Test
 Other (Explain in Remarks)

Remarks: Fill ~ 12'-18' deep.

VEGETATION

Dominant Plant Species:	Stratum:	Indicator:
1 <u>Alliaria petiolata</u>	<input checked="" type="radio"/> H S/S T V	<u>FACU</u>
2 <u>Alfisma vulgaris</u>	<input checked="" type="radio"/> H S/S T V	<u>FACU</u>
3 <u>Phalaris arundinacea</u>	<input checked="" type="radio"/> H S/S T V	<u>FACW</u>
4 <u>Daucus carota</u>	<input checked="" type="radio"/> H S/S T V	<u>FACU</u>
5 <u>Dipsacus sylvestris</u>	<input checked="" type="radio"/> H S/S T V	<u>FACU</u>
6 _____	H S/S T V	_____
7 _____	H S/S T V	_____
8 _____	H S/S T V	_____
9 _____	H S/S T V	_____
10 _____	H S/S T V	_____
11 _____	H S/S T V	_____
12 _____	H S/S T V	_____

50/20 Rule Applied: Yes No
 Percent of Dominant Species
 OBL, FACW, FAC 20
 OBL, FACW 0

Remarks: Also Acer negundo trees nearby

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes or No
 Wetland Hydrology Present? Yes or No
 Hydric Soils Present: Yes or No
 Is this Sampling Point Within a Wetland? Yes or No

Remarks: Upland

DATA FORM

ROUTINE WETLAND DETERMINATION

1987 USACE Wetlands Delineation Manual

Date: January 7, 2008

Town: Brighton/City Rochester

County: Monroe

State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello

Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No
Is the site significantly disturbed? Yes No
Is the area a potential Problem Area? Yes No

Community: Emergent wetland
Transect/Flag ID: 2 D4
Plot ID: 7W

SOILS

Series and Phase: Niagara
Subgroup: Aeric Ochraqualf

Drainage Class: WD MWD SPD PD VPD
Confirmed Mapped Type: Yes No

Table with 5 columns: Depth, Horizon, Matrix Color (Munsell Moist), Redoximorphic Features/Abundance/Contrast (Munsell Moist), Texture, Structure, Other. Row 1: 0-5, *, 10Yr 3/2, common he distinct, sa-cl, lo, sab-

Hydric Soil Indicators:

- Histic Epipedon, Sulfidic Odor, Reducing Conditions, Concretions, High Org. Content in Surface Layer, Organic Streaking in Sandy Soils, Gleyed or Low Chroma color, Landscape Position: Concave, Convex, Flat, Undulating, Sloping, Approximate Slope, Listed on Local Hydric Soils List, Listed as Potential for Hydric Inclusions Only, Other (Explain in Remarks), Aquic Moisture Regime

Remarks: * Exposed subsoil @ base of extensive fill. Strong wetland hydrology.

HYDROLOGY

- Recorded Data (Describe in Remarks): Local Soil Survey, NWI Map, NYS FWW Map, Stream, Lake or Tide Gauge, No Recorded Data Available

Field Observations

- Ground Surface Inundated 8 inches
Soil Saturated - Depth to Saturated Soils 0 inches
Depth to Free Water 0 inches

Wetland Hydrology Indicators

Primary Indicators

- Inundated, Saturated in upper 12 inches, Water Marks, Drift Lines, Sediment Deposits, Drainage Patterns in Wetland

Secondary Indicators (2 or more required)

- Oxidized Root Channels in upper 12 inches, Water - Stained leaves, Local Soil Survey, FAC - Neutral Test, Other (Explain in Remarks)

Remarks: Isolated surface water depression @ base of fill

VEGETATION

Dominant Plant Species:

Stratum:

Indicator:

Table with 3 columns: Dominant Plant Species, Stratum, Indicator. Row 1: Phragmites australis, S/S T V, FACW

50/20 Rule Applied: Yes No

Percent of Dominant Species

OBL, FACW, FAC

OBL, FACW

100

100

Remarks:

WETLAND DETERMINATION

- Hydrophytic Vegetation Present? Yes or No
Wetland Hydrology Present? Yes or No
Hydric Soils Present? Yes or No
Is this Sampling Point Within a Wetland? Yes or No

Remarks: All criterion met. Isolated wetland.

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 Spencerport, NY 14559
 (585) 594-4450

DATA FORM
ROUTINE WETLAND DETERMINATION
 1987 USACE Wetlands Delineation Manual

Date: January 7, 2008
 Town: Brighton/City Rochester
 County: Monroe
 State: New York

Object/Applicant: City Gate (Iola Campus)/AJ Costello
 Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No Approved Fill
 Is the site significantly disturbed? Yes No
 Is the area a potential Problem Area? Yes No

Community: Successional Pioneer old-field
 Transect/Flag ID: 2 D4
 Plot ID: 7U

SOILS

Series and Phase: FILL (mapped as Niagara)
 Subgroup: _____

Drainage Class: WD MWD SPD PD VPD
 Confirmed Mapped Type: Yes No

Depth	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Features/Abundance/Contrast (Munsell Moist)	Texture, Structure, Other
0-5	suatac	10Yr4/3		sa. lm. sub.
5+	sub	10Yr4/4		sa. cl. lm. sub.

Hydric Soil Indicators:

Histisols
 Histic Epipedon
 Sulfidic Odor
 Reducing Conditions
 Concretions
 High Org. Content in Surface Layer
 Organic Streaking in Sandy Soils
 Gleyed or Low Chroma color
 Listed on Local Hydric Soils List
 Listed as Potential for Hydric Inclusions Only
 Other (Explain in Remarks)
 Aquic Moisture Regime
 Landscape Position: Concave _____ Convex _____
 Flat Undulating _____
 Sloping _____ Approximate Slope: _____

Remarks: * Fill.
Non-hydric

HYDROLOGY

Recorded Data (Describe in Remarks)
 Local Soil Survey
 NWI Map
 NYS FWW Map
 Stream, Lake or Tide Gauge
 No Recorded Data Available

Field Observations
 Ground Surface Inundated _____ inches
 Soil Saturated - Depth to Saturated Soils _____ inches
 Depth to Free Water _____ inches

Wetland Hydrology Indicators

Primary Indicators
 Inundated
 Saturated in upper 12 inches
 Water Marks None
 Drift Lines
 Sediment Deposits
 Drainage Patterns in Wetland

Secondary Indicators (2 or more required)
 Oxidized Root Channels in upper 12 inches
 Water - Stained leaves
 Local Soil Survey None
 FAC - Neutral Test
 Other (Explain in Remarks)

Remarks:

VEGETATION

Dominant Plant Species:	Stratum:	Indicator:
1 <u>Dipsacus sylvestris</u>	<u>H</u> S/S T V	<u>FACU</u>
2 <u>Daucus carota</u>	<u>H</u> S/S T V	<u>FACU</u>
3 <u>Altissima vulgaris</u>	<u>H</u> S/S T V	<u>UPL</u>
4 <u>Phleum pratense</u>	<u>H</u> S/S T V	<u>FACU</u>
5 _____	H S/S T V	_____
6 _____	H S/S T V	_____
7 _____	H S/S T V	_____
8 _____	H S/S T V	_____
9 _____	H S/S T V	_____
10 _____	H S/S T V	_____
11 _____	H S/S T V	_____
12 _____	H S/S T V	_____

50/20 Rule Applied: Yes No
 Percent of Dominant Species
 OBL, FACW, FAC _____
 OBL, FACW _____

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes or No No
 Wetland Hydrology Present? Yes or No No
 Hydric Soils Present? Yes or No No
 Is this Sampling Point Within a Wetland? Yes or No No

Remarks: Upland fill dominated by old-field
forbs.

DATA FORM
ROUTINE WETLAND DETERMINATION
 1987 USACE Wetlands Delineation Manual

Date: January 7, 2008
 Town: Brighton/City Rochester
 County: Monroe
 State: New York

Project/Applicant: City Gate (Iola Campus)/AJ Costello
 Investigator: Gene Pellett John Hauber

Do normal circumstances exist on site? Yes No
 Is the site significantly disturbed? Yes No
 Is the area a potential Problem Area? Yes No

Community: Successional forest on possible fill
 Transect/Flag ID: Representative upland
 Plot ID: 8U

SOILS

Series and Phase: Fill (mapped as Hilton)
 Subgroup: _____

Drainage Class: WD MWD SPD PD VPD
 Confirmed Mapped Type: Yes No

Depth	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Features/Abundance/Contrast (Munsell Moist)	Texture, Structure, Other
0-12	A	10YR 3/3		sa. lm. sab.
12+	B	10YR 4/4		sa. cl. sab.

Hydric Soil Indicators:

Histisols
 Histic Epipedon
 Sulfidic Odor
 Reducing Conditions
 Concretions
 High Org. Content in Surface Layer
 Organic Streaking in Sandy Soils
 Gleyed or Low Chroma color
 Listed on Local Hydric Soils List
 Listed as Potential for Hydric Inclusions Only
 Other (Explain in Remarks)
 Aquic Moisture Regime

Landscape Position: Concave Convex
 Flat Undulating
 Sloping Approximate Slope: 3

Remarks: Apparent Fill
Non-hydric.

HYDROLOGY

Recorded Data (Describe in Remarks)
 Local Soil Survey
 NWI Map
 NYS FWW Map
 Stream, Lake or Tide Gauge
 No Recorded Data Available

Field Observations

Ground Surface Inundated _____ inches
 Soil Saturated - Depth to Saturated Soils _____ inches
 Depth to Free Water _____ inches

Wetland Hydrology Indicators

Primary Indicators

Inundated
 Saturated in upper 12 inches
 Water Marks
 Drift Lines None
 Sediment Deposits
 Drainage Patterns in Wetland

Secondary Indicators (2 or more required)

Oxidized Root Channels in upper 12 inches
 Water - Stained leaves
 Local Soil Survey None
 FAC - Neutral Test
 Other (Explain in Remarks)

Remarks:

VEGETATION

	Dominant Plant Species:	Stratum:	Indicator:
1	<u>Ager negundo</u>	H S/S T V	<u>FAC</u>
2	<u>Carex canadensis</u>	H S/S T V	<u>FAC-U</u>
3	<u>Lonicera tatarica</u>	H S/S T V	<u>FAC-U</u>
4		H S/S T V	
5		H S/S T V	
6		H S/S T V	
7		H S/S T V	
8		H S/S T V	
9		H S/S T V	
10		H S/S T V	
11		H S/S T V	
12		H S/S T V	

50/20 Rule Applied: Yes No
 Percent of Dominant Species
 OBL, FACW, FAC 33
 OBL, FACW 0

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes or No
 Wetland Hydrology Present? Yes or No
 Hydric Soils Present? Yes or No
 Is this Sampling Point Within a Wetland? Yes or No

Remarks:

Upland.

APPENDIX C
Photographs





PHOTO 1. Channelized intermittent ditch (Wetland A). Note extensive fill bordering both sides of the channel.



PHOTO 2. Terminus of channelized intermittent stream (Wetland A) entering broad off-site emergent marsh to the east.



PHOTO 3. View of Wetland B (tan vegetation in background) as it straddles the east boundary line of the study area. Note on-site upland fill in foreground (location of Data Point 4U).



PHOTO 4. Successional "pioneer" forest community characterizing uplands south of Wetland A. Note fill mounds.



PHOTO 5. Representative view of extensive fill uplands characterizing the southern third of the study area. Evidence suggest this area still being used for construction material and equipment storage.



PHOTO 6. View of depressional Wetland C along the site's west-central boundary line. Note Iola Campus development in background and abrupt fill edge on left side of photo.



PHOTO 7. View of delineated surface water depressional Wetland D dominated by common reed (*Phragmites australis*), and surrounded by fills.



PHOTO 8. Representative view of extensive fill area immediately east of Wetland C and south of Wetland D.



PHOTO 9. View of typical cinder and gravel filled uplands colonized by opportunistic common reed.



PHOTO 10. Representative view of successional "pioneer" forest community characterizing uplands in the northern portion of the study area. Evidence suggests this area to consist of historic fills.